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(71)Applicant : FURUKAWA ELECTRIC CO
LTD:THE

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(72)Inventor : TAKAGI AKIRA
INOUE ITARU

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(54) SUPERCONDUCTIVE CABLE AND SUPERCONDUCTIVE COIL

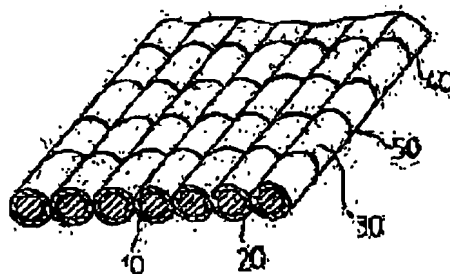
(57)Abstract:

PURPOSE: To make such works, stated below, on superconductive wires, which are conventionally difficult to be stranded, applicable to the super conductive wire and lower the joining loss effectively by arranging a plurality of

superconductive wires coated with an insulating coating in parallel and transversely laying thin wires so as to unite the superconductive wires.

CONSTITUTION: A plurality of insulating coating-bearing superconductive wires 30 produced by forming insulating coating layers 20 on the outer circumferences of superconductive wires 10 are arranged in parallel and thin wires 40 are transversely laid to unite the wires 30.

Consequently, each of the insulating coating-bearing superconductive wires 30 are bound one another and at the time when a superconductive coil is assembled, the wires can be coiled as a gathered conductive body. In the case the thin wires 40 are semi-cured wires, after the wires 30 are coiled, the resulting body is heated at the curing temperature of the thin wires 40 or higher to cure the wires 40 and to bind the wires 30 firmly. As a result, wire movement, etc., is suppressed.



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